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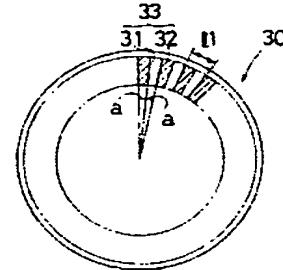
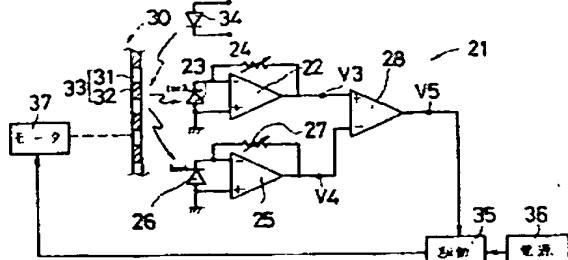
APPLICATION DATE : 05-09-86
APPLICATION NUMBER : 61210058

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TITLE : TRAVEL STATE DETECTOR



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ABSTRACT : PURPOSE: To eliminate the mistaken detection of a travel state by providing two detection means detecting the way that a travel body runs, comparing their detected outputs and alternately switching the output level of a comparison means when the levels of the two detected outputs become the same.

CONSTITUTION: A high reflectance part 31 and a low reflectance part 32 are alternately arranged at the same interval on the periphery of a rotating disk 30 being the travel body. Light projected on the disk 30 from an LED 34 is reflected by a detection pattern 33, and makes incident on photodiodes 23 and 26. Operational amplifiers 22 and 25 convert the output currents of the diodes 23 and 26 into voltages V3 and V4, which a comparator 28 compares. When the levels of the voltages V3 and V4 become the same, the comparator 28 alternately switches the level of an output V5, and gives it as a rotation signal to a drive circuit 35. It controls an input current from a power source 36 in accordance with the signal V5, and drives a motor 37. With this constitution, the rates of changes in the outputs of the two detection means are the same, and a mistaken detection is eliminated. Said changes are caused by the soil of a detection area, etc.

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